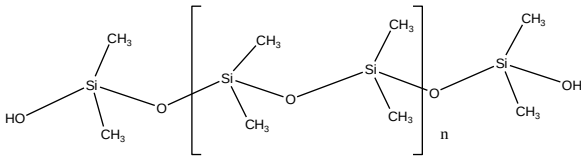
Sample Name: Polydimethyl siloxane-Disilanol
Sample #: P14521-DMS
Silanol end terminated

Structure:



Composition:

Mn	PDI
0.8	1.4
T_m (°C):-42	T_c (°C):-71 T_g (°C): -127 (Lit.)

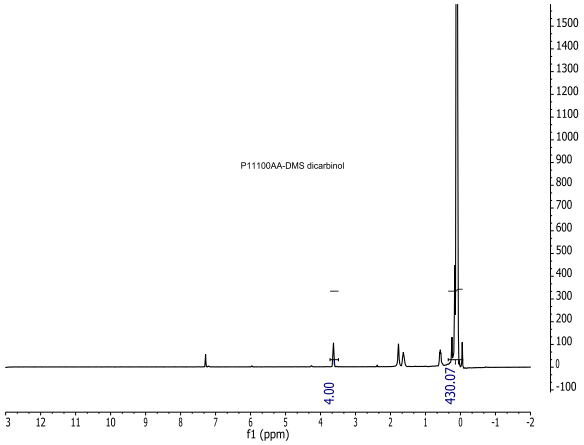
Synthesis Procedure:
By anionic polymerization process.

Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers.

^{1}H NMR of the PDMS end functionalized with Carbinol was used to determine molecular weights.

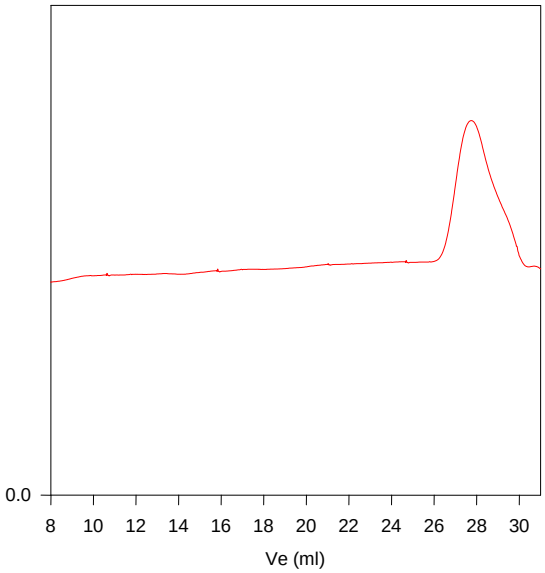
Solubility:
Polysiloxane is soluble in hexane, toluene, cylcohexane, THF and chloroform but precipitates from methanol and ethanol.

^{1}H NMR:



SEC of Homopolymer:

P14521-DMS



Size Exclusion Chromatography in THF at 35 ¡ãC w.r.t PDMS standards.

M_n=800, M_w=1,100, PI=1.4